



Science for Kids

Diamond Recipe: 'Baking Bling'

How to cook a diamond for that special person.

Ingredients

1. Kilos of Carbon

Equipment

1. One earth (pressure cooker)
2. One volcano



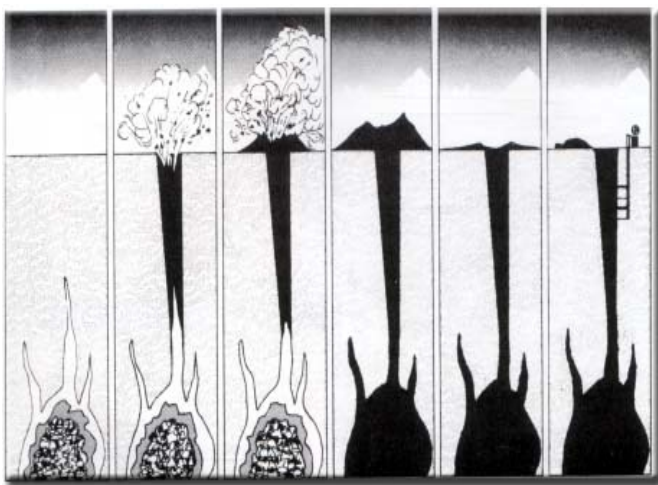
Directions

Step 1. Take your Kilos of carbon 160km underground.

Step 2. Heat it up to 1200°C (Don't burn yourself)

Step 3. Turn on the pressure cooker to 340000kg per square inch. That's right it's very squeezey.

Step 4. Use your volcano to rocket the diamonds to the surface so they cool quickly.



How it really works:

Diamonds form in the earth about 120-200 kms under the surface. They come to the surface in volcanoes. The first diamonds came to the surface about 2.5 billion years ago. The carbon in diamonds comes from carbon in rocks of the earth's mantle. 200 km under the earth the pressure is great and the temperature high enough to

melt mantle rock. If the pressure and temperature is just right then the carbon atoms in the molten mantle rock join together and become a crystal called diamond. The diamonds travel to the surface in volcanoes.